

Supporting information

Porous MoS₂ nanosheets for the fast decomposition of energetic compounds

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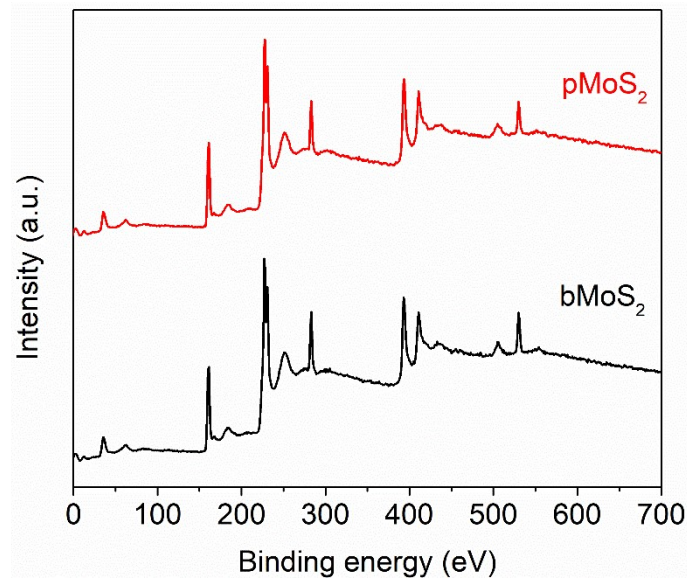


Figure S1. XPS total survey of pMoS₂ (red line) and bMoS₂ (black line).

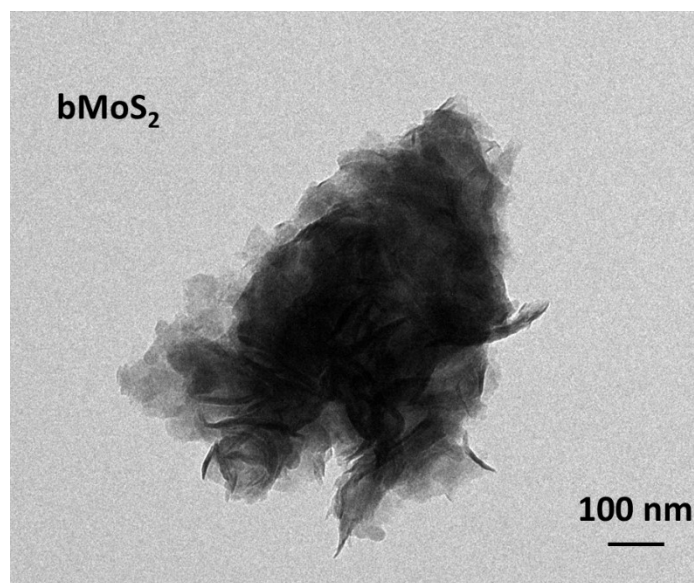


Figure S2. Low-magnification TEM image of bMoS₂, showing a dense structure.

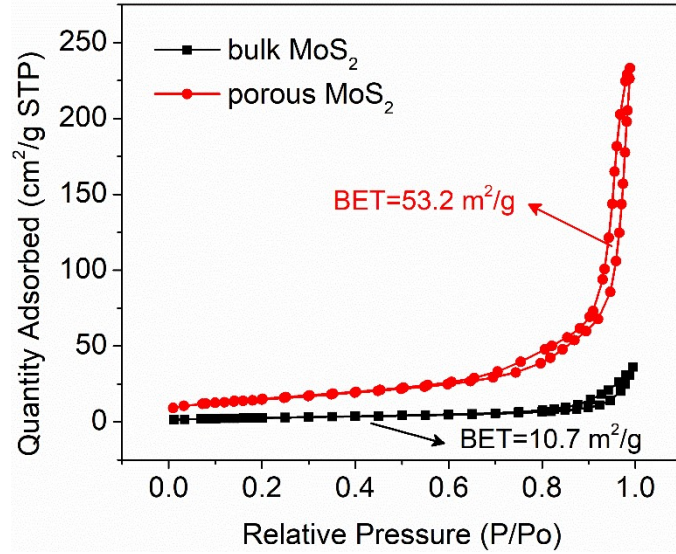


Figure S3. Nitrogen sorption isotherm of bulk and porous MoS₂.

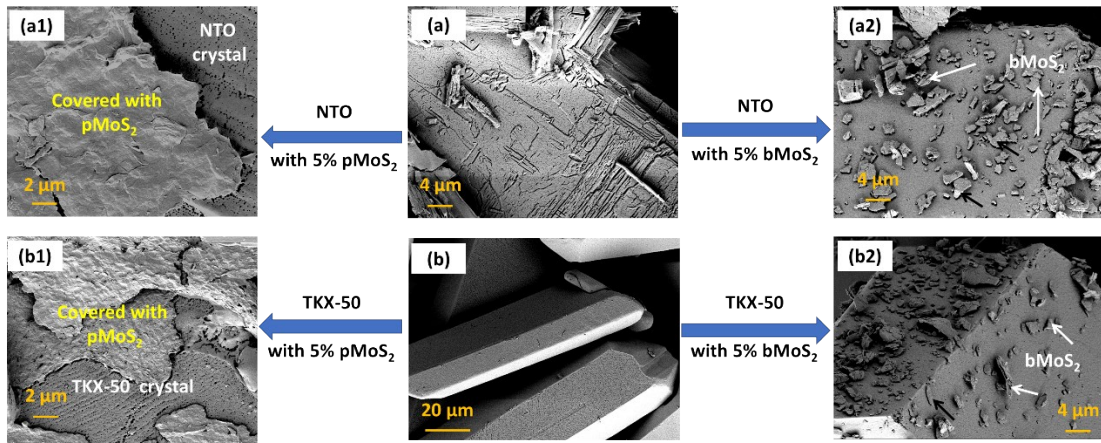


Figure S4. SEM images of NTO and TKX-50 with 5% MoS₂ additive in bulk and porous form.

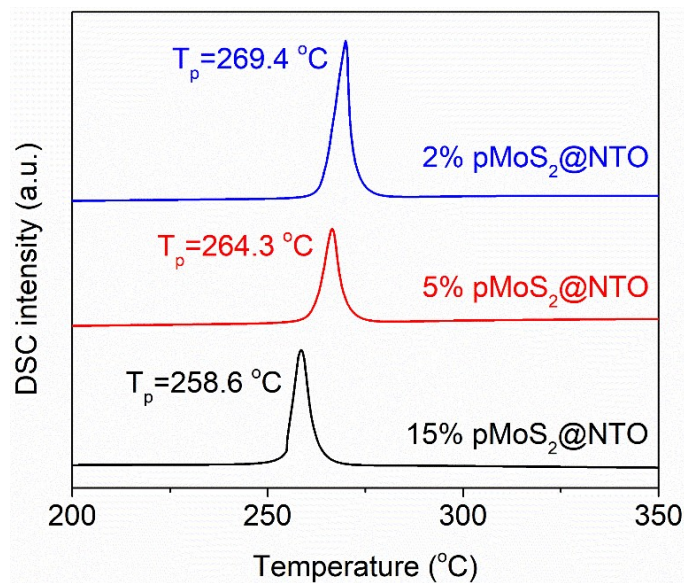


Figure S5. The DSC curves of NTO complexed with various mass loading pMoS₂.

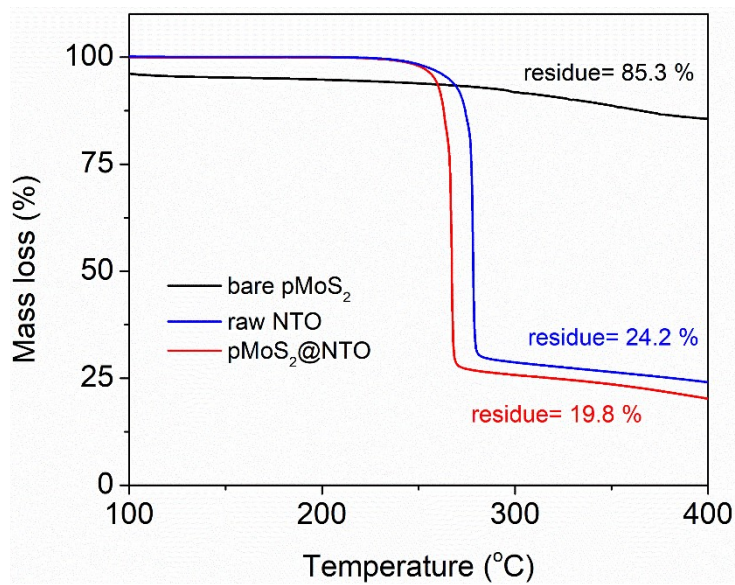


Figure S6. The TG curves of NTO complexed with pMoS₂ and bMoS₂.

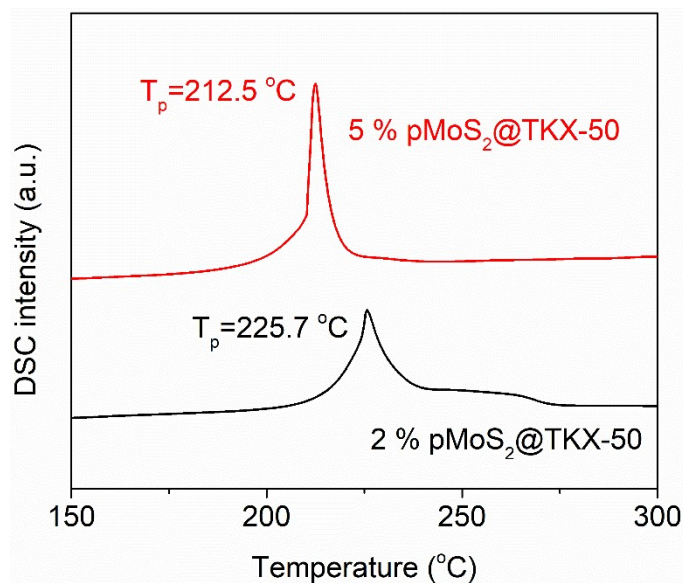


Figure S7. DSC curves of TKX-50 with various pMoS₂ loading.

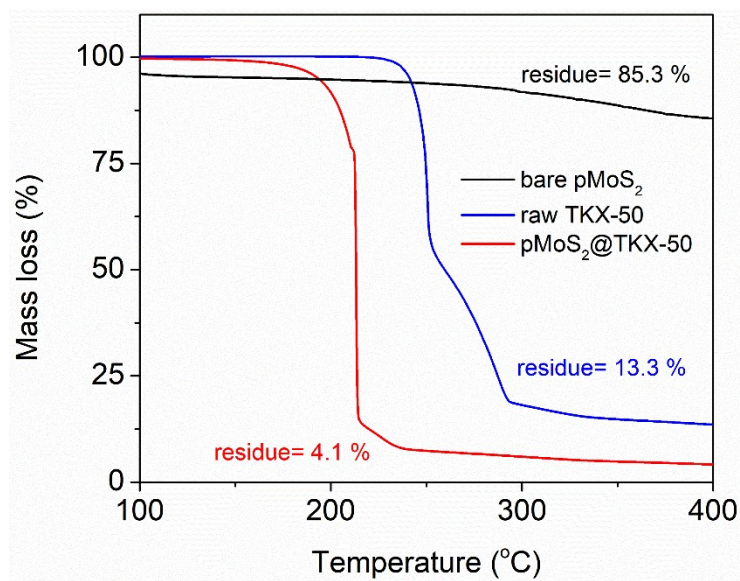


Figure S8. The TG curves of TKX-50 complexed with pMoS₂ and bMoS₂.

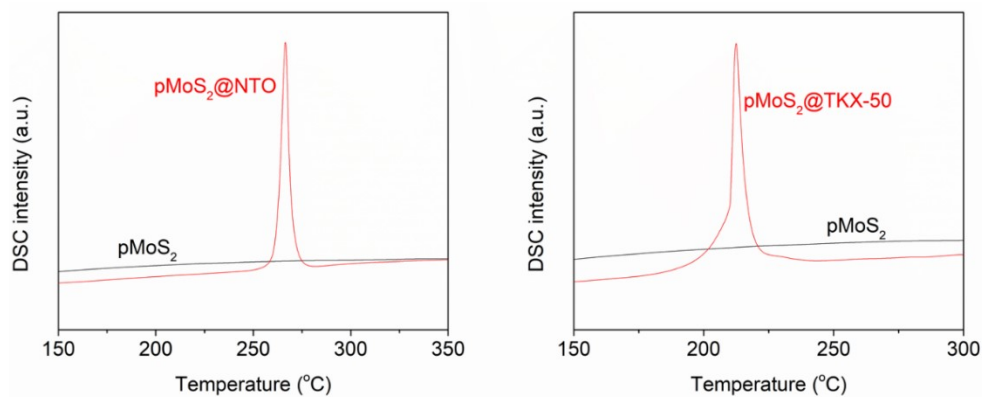


Figure S9. DSC curves of pMoS₂ compared with that of pMoS₂@NTO and pMoS₂@TKX-50.

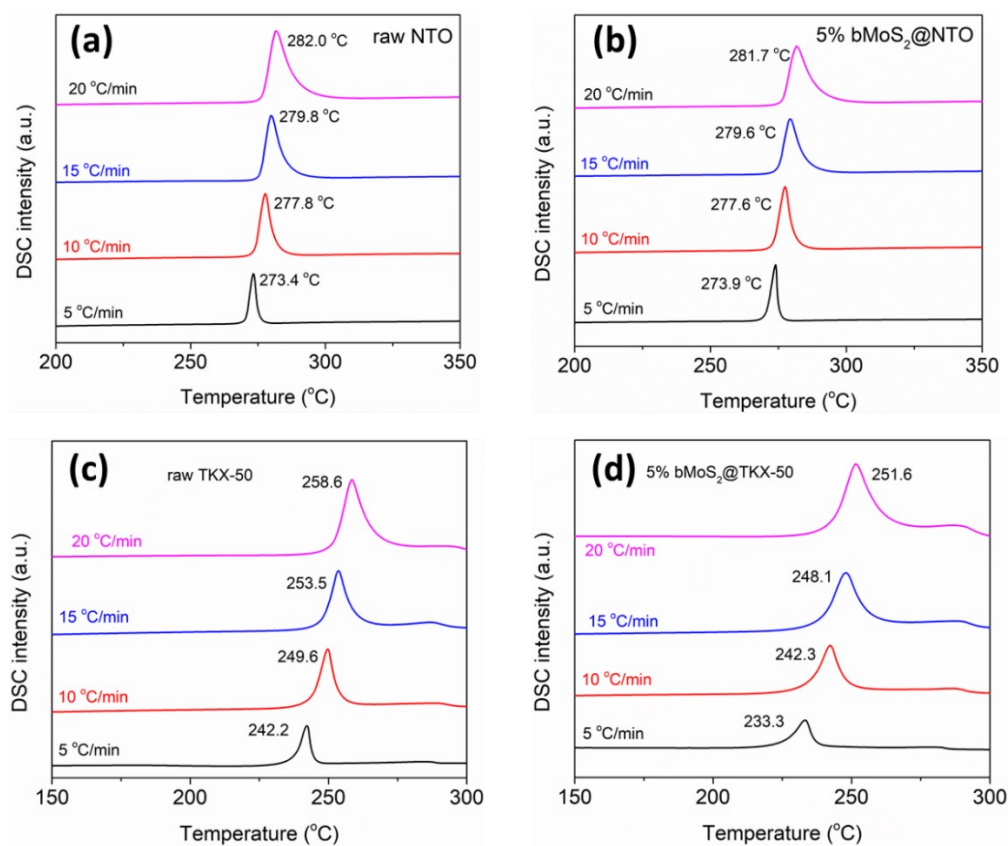


Figure S10. DSC curves of (a) raw NTO, (b) bMoS₂@NTO, (c) raw TKX-50 and (d) bMoS₂@TKX-50.